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AMPLITUDE MODULATOR (54) MULTILEVEL QUADRATURE

(57) Abstract:

high quality by compensating surely PURPOSE: To provide a multilevel quadrature amplitude modulator of which is caused by the temperature the fluctuation of the output level change of a D/A converter.

converters 1 and 2 receive the digital signals D11, D12, D21 and D22 and CONSTITUTION: The D/A

and 72 generates the voltage Vc1 and Then, the voltage generating parts 62 amplifiers 3 and 4 receive the signals Vc2 so as to set the difference of the quadruple amplitude. The differential and 7 calculate the average levels of B1 and B2 and transmits them as the smoothed base band signals B1p and signals B2p and B2n of the negative and Vc2. A multiplier 5 receives the control voltage generating circuits 6 phases respectively. Meanwhile, the response to the control voltage Vc1 modulated signal Sm. The average the signals B1p-B2n respectively. calculating parts 61 and 71 of the signals B1p-B2n and produces a multilevel quadrature amplitude convert them into the base band Bln of positive phases and the output levels are controlled in signals B1 and B2 having the average levels at zero. COPYRIGHT: (C)1994,JPO&Japio

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